

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 April 2004 (01.04.2004)

PCT

(10) International Publication Number  
**WO 2004/028164 A1**

(51) International Patent Classification<sup>7</sup>: **H04N 7/24, 7/52**

(21) International Application Number:  
PCT/JP2003/012065

(22) International Filing Date:  
22 September 2003 (22.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
NO. 2002-274539  
20 September 2002 (20.09.2002) JP

(71) Applicant (for all designated States except US): **MAT-SUSHITA ELECTRIC INDUSTRIAL CO., LTD.** [JP/JP]; 1006, Oazakadoma, Kadoma-shi, Osaka 571-8501 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TANAKA, Akihiro** [JP/JP]; K2-101, 3-9-25, Omiya, Asahi-ku, Osaka-shi, Osaka 535-0002 (JP). **MORI, Toshiya** [JP/JP]; 1-6-19, Shinzaike, Settsu-shi, Osaka 566-0055 (JP). **KAGE-MOTO, Hideki** [JP/JP]; 3-8-4, Aogakidai, Nara-shi,

Nara 631-0053 (JP). **YAMAGUCHI, Koichiro** [JP/JP]; 1-10-10, Tsukahara, Takatsuki-shi, Osaka 569-1046 (JP). **TERADA, Yoshihisa** [JP/JP]; 4-30-408, Yanagida-cho, Kadoma-shi, Osaka 571-0038 (JP).

(74) Agent: **NAKAJIMA, Shiro**; 6F, Yodogawa 5-Bankan, 2-1, Toyosaki 3-chome, Kita-ku, Osaka-shi, Osaka 531-0072 (JP).

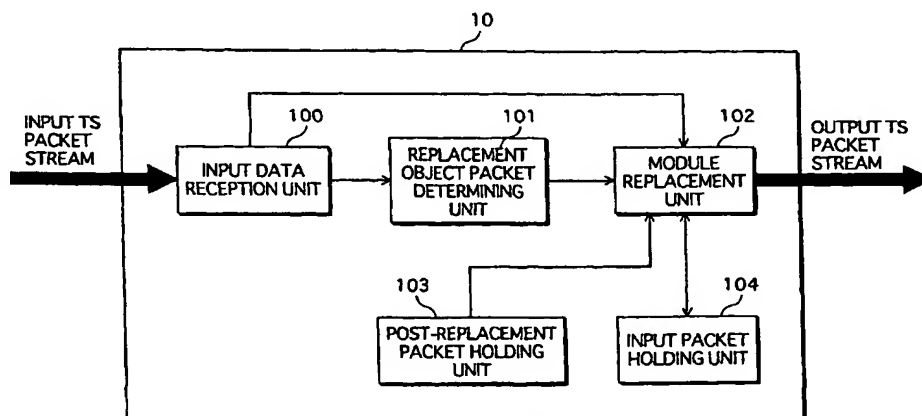
(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:  
— with international search report

[Continued on next page]

(54) Title: DATA REPLACEMENT OUTPUT APPARATUS AND METHOD



(57) Abstract: The data replacement output apparatus 10 determines whether to perform a sequential output of replacement data based on a comparison between (i) the number of units of data constituting replacement object data received during a time period and (ii) the number of units of data constituting replacement data output during the time period. The determination is made each time replacement object data is received while the sequential output of data is not performed. If it determines to perform the sequential output, the data replacement output apparatus 10 outputs replacement data each time data constituting a data stream is received, and outputs non-replacement-object data each time data constituting non-replacement-object data is received while the sequential output is not performed; if it determines not to perform the sequential output, it outputs non-replacement-object data each time a unit of data constituting the data stream is received.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*